# Tapan Christian Activity News

ISSN: 0021-4353 AUG 2 8 1990

#681 AUGUST, 1990

### ASHES OF DEATH

CONTINUATION OF THE OBSERVATION REPORT ON THE STER OF THE CHERNOBYL NUCLEAR POWER PLANT AS ARED IN THE JULY ISSUE OF JCAN

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#### alysis and Interpretation

a person whose research is related to lformation and the genetic effects of diation I will compare the data on ernobyl, although not sufficient, and e data on Hiroshima, based upon my search in Hiroshima. This may provide me understanding of the extent of postcident radiation effects caused by the ernobyl power plant explosion.

e radiation components of the uranium mb dropped on Hiroshima included 70 rcent fission producing neutrons and 30 rcent gamma radiation. The Plutonium 39 <sub>94</sub> PU) bomb dropped on Nagasaki cluded less fission producing neutrons an the Hiroshima bomb. The problems rought by these bombs resulted not only om the effects of radiation which esulted in ionization of genetic aformation but also from the damage and oss of life caused by the secondary ffects of the explosion - the concussion nd fires.

he total amount of fission producing eutrons released by the Hiroshima bomb as said to be 14,176.6 rads, and the amma radiation 10,306.6 rads. 2,000 eters from the epicenter of the explosion he fission producing neutrons decreased

to 0.5 rads and the gamma-radiation count to 1.9 rads. Although remaining radiation was detected, the physical effects of radiation on those who entered Hiroshima City seven days after the explosion were hardly recognizable. Internal exposure through the food chain was not detected. In contrast, the total dose of radiation after the Chernobyl explosion was estimated at 12 to 15 rads, or 120 million Ci (Curie).

The radiation results from high densities of cesium and iodine. Other elements found included strontium and plutonium. Although the explosive power of both Hiroshima and Chernobyl was great, the actual Chernobyl explosion caused acute damage to only a limited number of people. for it was not in a densely populated area. The problem lies not so much in the actual nuclear power plant explosion but in its after-affects.

Through the food chain the cesium, which has a 30 year half-life, goes into the human body and continues to irradiate internal organ cells. The cesium poison is lesser than plutonium and strontium, however, recent reports state that cesium causes cancer and malformations. In an experiment conducted to determine teratogenic effects, a total of 680 rads were irradiated into pregnant rats for 9 to 18 days. The results showed 98 percent of the rats with embryo malformation. The malformation effects are greatest with fission producing neutrons, and decrease with tritiated water, cesium 137 and cobalt 60.

It is a widely known theory that acute malformation occurs when the amount of radiation exceeds the resistible threshold at a certain point in a pregnancy. If the exposure has not reached the threshold point, or if it doesn't occur at a critical point in the pregnancy, malformation does not occur.

The high ratio of random effects on cancer or genetic abnormality was created by low level radiation over a longer period of exposure.

Therefore the possibilities of cancer anagenetic effects from a nuclear power plant explosion are of primary concern. According to a warning issued by the International Committee for Radiation Protection (ICRP) in 1965, the maximum permissible dose was 0.5 rems per year for the total body.

The USSR Academy of Sciences set the safety level for lifetime exposure at 35 rems. However, this was changed to 15 rems and then changed once again to 7 rems. The experience in Hiroshima proved that the radiation level among atom bomb victims suffering from Leukemia was between 45 and 115 rems (or 20-40 rads), which is a higher level of radiation than the non-exposed radiation groups.

In the Chundiani village the radiation level of the earths surface was measured at 300 ci/km2. This is equivalent to about 1 millirem/per hour: i.e. being in this location for 100 hours results in 100 millirems of exposure. This is the same amount of radiation as one chest X-Ray. (Dr. Frossard)

Supposedly a person could live in an area where the radiation level is calculated at one millirem per hour for 4 years: 1 millirem x 24 hours x 365 days x 4 years = 35,040 millirems. This level exceeds the safety standards set by the ICRP and the USSR Academy. However, this calculation is based on external exposure only. The radiation level will increase when internal exposure, caused by ingesting food and milk, are calculated. Therefore the White Russia (Byelorussia) administrative officials ordered those who lived in the critically affected areas to leave the land.

In most of the villages we visited we saw houses without any people. Yet surprisingly we saw people still alive. The officials explained that they could not leave their land. They did not want to move out even though it meant dying. This means that if people continue to reside there, or come and go from the area, the

possibility of cancer is very high.

Genetic research shows that the hu populations experience genetic dise through natural mutation. This nemu innie occurred on several occasions where total radiation dose doubled the speed the development of genetic disea recorded at 10-100 rems or an average 30 rems. If a person lives 3 years an months in an area detecting a high le of radiation at 300 Ci/km2, they will exposed to 30 rems, a double do According to this theory such means t in the next generation genetic epidem will double. This is a very important serious warning.

In this pessimistic situation we must flight and work to interpret what genetic effects will be on young couple among the population who would reside such an area and produce the negeneration; and to then compare genetic effects on children in both toontrolled and safe areas.

When we visited the effected area by jewe were surprised to see a young wom with a small child walking in the fiel It was strange to think that these peopwill become statistics and the objects research. Is it for medical reasons for the purpose of comparative examinati theories that people are living in the dangerous place? When I saw the fawoman walking in this contaminated area prayed that they would move out from the dangerous area even though it meant the difficulty of moving to a new place.

Detrimental genetic effects can controlled and kept to a minimum level appropriate measures, and from 01 experience in Hiroshima we have found : possible to control the effects. Hiroshima significant genetic effects atomic bomb victims have not be discovered. This was proved by heal examinations conducted by Hiroshima Ci and Prefecture through chromosom analysis and mutant examinations by to dimensional electrophoresis. The pile case studies and autopsies of aborte fetuses being conducted by the Research Institute for Nuclear Medicine and Biolog at Hiroshima University will prove the effects on the next generation. is difficult to make 100 percent tarantees in the field of nuclear edicine and biology. In order that the evelopment of methods of diagnosis and suscal examinations of abnormalities are bund it is necessary to observe the tuation over a long period of time.

cording to Dr. B. L. Alexandrovich in scow, in 1951 there was a leak in coling water contaminated with radiation com the Oural Nuclear Power Plant 50 km vay. In this accident 28,000 people were sposed for 2-3 years. 1,000 people were sposed to over 52 rems; 66 people iffered from late effects, 37 people ontracted leukemia, and 22 people had ancer of other organs. However, there as no record of the genetic effects nor ny recognition of the problem. It is ifficult to say that "no genetic effects ere found" or that it produced "no enetic effects." Although different rom experiments practiced with animals, nese findings indicate possible controls or the discovery of genetic disease.

here are published articles dealing with ne numerous cases of fetus malformation n Hiroshima. There are 40 cases noted here the head of the fetus is exposed in he mothers womb. The survey's conducted uring the aftermath of the Hiroshima estruction lack important information elated to early still births. In eality cases of malformation were less han estimated while cases of cancer were any. My particular concern was nvestigating the number of babies born ith birth defects as a result of the hernobyl accident. Unfortunately, it was ifficult to get this information. I elieve that the cases of birth defects ay be small in number, for birth defects re not usually found with the ccumulation of low dose levels of adiation.

## aiski Village

he Maiski village is located 5 km away rom the Chudiani Village. Government fficials found a cleared, non-polluted rea and built 20-30 houses. I was urprised to find a radiation free area ocated just 5 km from the highly radiated one. If no precipitation of 'death shes' can be detected in the area what

about changes in the consistency of the soil and underwater currents? Can a definite border exist between the highly contaminated area and the clean area? If it exists can it remain permanently?

When we got off the jeep we were riding, farmers came and gathered around us. As soon as the village officials joined us the expressions on the farmer's faces changed and they became very serious. Each one talked about their problems and appealed for their demands. The officials, who were middle aged men, explained the importance of the new national policies with the conviction of communist party members. But standing behind them, listening to the words that appeared to be coming from their backs (the true expression of his feeling) he seemed to be saying: "Whatever we are doing is not enough, but we continue to try." The Riveston and party such tool burn.

### Tasks

Prior to the trip to the USSR the Orthodox Church sent a list of medical needs. One-fourth of the medical equipment listed is produced in Japan including, the Electronic Ultra-Sonic Scanner by Hitachi and the Broncho-Fiberscope by Olympus. Are we not able to respond to their requests for medicine and medical equipment? This is a chance to prove that science is not always creating unhappiness.

### Conclusion

Traveling in the USSR I noticed the difficulty of the present economic situation: in the hospitals we visited medicine and medical equipment were scare. It was impressive to experience the warmth of the people in the Orthodox Church and to hear their passionate expectations for the future. Many women offered relevant prayers in worship services, smiling farmers welcomed us graciously, young women dressed in fashionable clothes could be seen on the streets, and mothers were working with pride. The wheat fields spread to the horizon, the forests were deep and green and the buildings told of the history and tradition of the region. I felt that the people who have lived in harmony in this country had the power to restore themselves in the face of such a terrible disaster.

All the people whom we met such as the Bishop, priests, mayor and village heads, said that the problem does not only belong to state and country, but to all of humanity. This is the appeal which Hiroshima has been making to the world. Was it necessary to make such huge sacrifice in Hiroshima and Chernobyl in order to address the issues of radiation disaster?

#### CHERNOBYL THE AFTERMATH

BY SADAKO KURIHARA (A TRANSLATION; AYC)

Away from the town
A white bird rests on its nest
On top of a dead and charred black tree.
The dark town of hell can be seen in the
distance

In the ghostly dead zone.
Will the eggs at the top of the tree hatch?

Will the day come when the birds fly toward the heavenly sky?

We too are white birds
Making a nest atop a dead and charred
tree.

All life on earth has been exposed to radiation made by human hands.

Always frightened by the threat of a blue flash

We make "homes" with father, mother and child united together,

Concealing our fears day by day

With fragile happiness.

Even though the bird flies to the sky
It moves like a see-saw,
Radiation cloud in the sky
From nuclear experiments
From countless satellites
Orbiting and racing in space,
One day these will stop
And suddenly fall down upon our heads.

Where is the cause of this human made radiation?

Unless we stop this criminal cause Built under the name of national polic Life cannot be lived

By the shallow happiness of today The closed eyes must open,

Live life Sing together The song of life Together!

#### IN REMEMBRANCE HIROSHIMA and NAGASAKI

RIGHTS FOR FOREIGN ATOM BOMB SURVIVORS URGED

Memorial ceremonies were held in Hiroshi and Nagasaki this month commemorating t atomic bombings that devastated bo cities 45 years ago.

At the Hiroshima ceremony 55,000 atom bo survivors, families of victims, foreiguests and citizens joined in a minute silence at 8:15 a.m., the moment when t US dropped the atomic bomb which claim the lives of 140,000 people. The ceremo took place at the Peace Memorial Pawhich is located near the hypocenter.

As is the tradition, members of victims families presented a list to the cit government during the ceremony, upon which were written the names of 10,175 bon victims who died from after affects at those who had been missing but declare dead during the past year. The names were added to the cenotaph in front of the peace statue. The additional names raise the total number of atom bomb related deaths to 167,243.

#### NAGASAKI MAYOR SPEAKS OUT

About 25,000 were on hand in Nagasaki' Peace Park on August 9, as Mayor Hitosh Motoshima urged the government tapologize and compensate the foreigner who still suffer as a result of the atomi bombings in both cities.

"During the 45 years since World War II the plight of non-Japanese atomic bom survivors has been virtually ignored. Ou moral responsibility toward these peopl great indeed."

toshima focused on the plight of Koreans d Chinese saying they "were forced to me to Japan under the cruel system of lonial rule, who were subjected to human treatment and who perished in the omic bombings far from their homes. Here are also many survivors in these nuntries who are now facing old age with me mental and physical torments caused by posure to the bombings. It is imperative nat we take immediate steps to offer pologies, to conduct investigations and provide assistance for these people."

It Prime Minister Toshiki Kaifu, the irst prime minister in four years to ttend the Nagasaki ceremony said only hat his government would explore ways to xpress its condolences to the victims and o more adequately support those survivors till suffering from bomb-related njuries.

he comments by Motoshima were the first f their kind ever expressed in the annual eace declarations.

otoshima, a veteran legislator of the uling Liberal Democratic Party became one of the first politicians to state publicly in Dec. 1988, that the late Emperor Showa ore a degree of responsibility for the par. As a result he became the target of threats, mainly from right wing fanatics.

In January of this year (see JCAN, Jan. 674) the threats materialized when dotoshima was shot and seriously wounded in front of Nagasaki City Hall by a rightist who confessed that the attempted issassination was in retaliation for the remarks made by the Mayor about the late imperor. The event drew into question reedom of speech, the basis of democracy in Japan.

The experience however, seems not to have leterred Motoshima, as he stated in a recent newspaper interview that Japanese just continue to reflect on their past war responsibility in order to gain respect in the world community.

To reflect on the past is to build the asis for a peaceful future. Let us inform the younger generation about the

horrors of war and about the vital importance of peace and human rights."

Motoshima said that since Japan signed the San Francisco Peace Treaty in 1952, and abandoned its right to demand compensation from the US for damages caused during World War II, the Japanese government must be fully responsible for supporting the victims.

But Prime Minister Toshiki Kaifu, the first prime minister in 14 years to attend the Nagasaki ceremony, said only that his government would explore ways to express its condolences to the victims and to more adequately support these survivors still suffering from bomb-related injuries.

During South Korean President Roh Tae Woo's visit to Tokyo in May, the Japanese government promised to pay 4 billion yen in compensation for South Korean victims of the Hiroshima and Nagasaki bombings.

It is estimated that 10,000 of the South Koreans forcibly brought to Japan during its 1910-1945 colonial rule of Korea were exposed to the two bombings.

Koreans attending a memorial service in Seoul for the South Korean victims demanded the immediate payment of the 4 billion promised by the Japanese.

The service, sponsored by the Association of South Korean A-Bomb Victims, drew 300 people. (LA)

#### AUGUST 15 IN MEMORIUM

Against a background of rising tensions in the Middle-East, August 15, marking the end of World War II, was remembered throughout Japan.

Beginning in the morning at 7:00 a.m., a one-hour service was held at the park of the unknown soldier. About 200 Christians gathered in the afternoon for a meeting to express their opposition to the government's decision to support the Sokui no Rei (Imperial Enthronement Ceremony) and Daijosai (Divine Banquet Festival).

Explaining the beginnings of the Imperial ceremonies Rev. Masahiro Tomura countered the historical myth of the origin of the emperor, found in 7th century writings (Kojiki and Nihonshoki). Rev. Tomura said that we are now in the eye of a large typhoon that may continue for 10 years. After the typhoon passes we may be placed under the control of Japan's Tenno system. Thus, out of this fear the grassroots movement groups are standing in opposition to the imperial ceremonies related to the Tenno's enthronement and the nationalization of Yasukuni Shrine.

On May 29 of this year five large SDF helicopters airlifted a large throne from Kyoto to Tokyo (see JCAN #678). Such cooperation proves that the SDF serves the power of state authority. In 1973 members of the SDF received an audience with the emperor at the Imperial Palace.

Transportation of the enthronement seat by the SDF was carried out under the code name operation "murasaki" (purple), strategic headquarters of this operation were located at the Defense Ministry. Thus it become clear that the military power and the Imperial Enthronement Ceremony are inseparable. Without the backing of military power the Tenno is without his cloth. Preparations for the upcoming Daijosai ceremony are well-guarded by the powers of both the military and the police.

The relationship between the military and the Tenno system can be understood using the analogy of a computer. The software program of the Tenno system consists of various ceremonies centering around the emperor's enthronement, which is in turn protected by the hardware program - military power.

Instead of debating the issue of the enthronement ceremony in the Diet, the myth of the Imperial House and politics are combined to create a Tenno state, with Japan at the center and all other countries forming as branches to that state.

Tomura continued saying that August 15, 1945 was the day when Japan's myth died. Yet, the Allied Forces could not disassemble the Imperial House and it is

at this point that Japan's mythic democracy began. The government says the the enthronement ceremonies will be he according to the traditions of Japa that is, the emperor is to procla himself a descendant of the imperial li of Amaterasu (god of heaven) and dema the loyalty of his people.

Contrary to the constitution of Jap which defines sovereign power as resti with the people, these ceremoni recognize the emperor's dominion over t state. In the mythical ceremony call Daijosai, the political leader sleeps wi the sun goddess in order to achieve better harvest. This ceremony has be repeatedly used to regain the power a authority of the Tenno from the 8 century on. In an effort to centrali the emperor's power the Meiji governme used the ceremonies of Sokui no Rei a Daijosai to strengthen nationalism modern Japan.

Following the meeting the participan marched through the streets to demonstra their opposition to the government decision to support the enthroneme ceremonies for the new emperor. (AYC)

#### LIBERATION AND THE CHURCH

THE ROLE OF THE CHURCH IN THE LIBERATION OF KOREANS JAPAN

An International Christian Symposium of "The Role of the Church in the Liberation of Koreans in Japan" was held at Kwanse Gakuin University from July 2-4 Representatives of protestant Churches an the Catholic Justice and Peace Commission gathered to consult with members from th eight district Christian Coalitions of Alien Registration Law Issues (ARL) i Japan. International Solidarit participants from Korea and North Americ action groups also joined the discussions In total 46 persons from coalitions an churches in Japan and abroad participate in the symposium called and coordinated b the National Liaison Council of th Christian Coalition on ARL Issues.

Symposium evaluated the struggles of reans against the injuries suffered der and injustice of the ngerprinting and passbook requirements d criminal prosecution resulting from ilure to comply with these laws. It ted in a repentant spirit the failure of e Christian movements involvement. gether with Korean and Japanese people, gain fundamental revision of the ARL in e 1980's as part of the larger struggle r full liberation of the Korean people Japanese society and the restoration their ethnic dignity and equal social portunities. It condemned both the eakdown of Japanese moral conscience and e process of justice as court appeals in L cases were denied a hearing due to the ilateral amnesty implemented in February 89. The amnesty was announced following e death of Emperor Hirohito.

e conference criticized the falseness d deception of Japanese and Korean vernment leaders in their exchange of pologies and conciliatory phrases in the tate visit of ROK President Roh Tae Woo May, 1990, and in ongoing bilateral overnment negotiations. Specifically the citicisms were directed at the repentant and hard-hearted attitude of panese authorities responsible for the ducational, judicial, public service, tate security, and foreign residence olicies, and on the fact that the incipals involved (i.e. integrated ermanent residents - "foreigners" - born Japan as descendants of Japan's olonial conscriptees) are denied a just nd determinative role in the policy king process. These were described as ins against human lives and conscience, nd the social and cultural rights and elationships of people in Japan.

the symposium took note of the seriousness of the present situation faced by Koreans and other foreign residents, as over 50,000 Koreans in Japan will renew their registration during the summer months. The same summer months are also took note of: the burden placed very year on the 5,000, 16 year-old breans who are forced to confront this roblem, and the 104 first-time refusers also them; the adamant enforcement of the tagging with I.D. cards of foreign residents in ways which incite Japanese accial prejudices and social

discrimination; and the bilateral government negotiations serving political and state interests toward unilateral solutions by January, 1991 without the open, democratic participation by Korean and Japanese people.

Mission action priorities for the 1990's were outlined for implementation in Japan and the region, and for international human rights and social justice solidarity appeals. Actions included:

- Political efforts to gain the radical revision of the ARL, ridding it of its racist, discriminatory elements.
- Limitation of the excessive discretionary powers exercised by the authorities over the lives of foreign residents.
- Conscientious efforts to gain an apology through a process of public debate for colonial and neocolonial injustices, coupled with legislative guarantees redressing the legal status and basic human dignity of Koreans in Japan, and restoration of the social and cultural rights of Koreans and other historically rooted non-Japanese members of society.
- Extended efforts to build up the Christian coalition engagement in ARL issues for the realization of freedom for all people in Japan, actively cooperating with NGO's to hold the Japanese people and government accountable to United Nations human rights standards.

The Symposium closed its intense sessions by confirming the confessional grounds for the original and continuing engagement in ARL and "1991 issues" of legal status and social justice. The declaration approved by the symposium advocated that action toward Japanese and Korean state authorities be taken regarding these policies and that efforts be encouraged to effect change by citizens at the local and international level and through the civil service.

The declaration committed the

participants, and called related churches, coalitions and mission agencies to stand with those who according to their conscience refuse to be fingerprinted and those who are opposed to the oppressive registration process in its entirety. It set the next year of mass re-registration, 1995, as the time when Koreans and Japanese will have the opportunity to fully claim their liberation and reconciliation rights; and a time to celebrate the victories won through the struggles along the way.

#### KADENA AIR BASE ENCLOSED

HUMAN CHAIN AROUND KADENA AIR BASE

According to reports from local newspapers, on Aug. 5, 26,000 people formed a "human chain" encircling the US Air Force base at Kadena in central Okinawa to demonstrate against US military presence in Okinawa and to call for a return of the base site to Japan. The protest came on the eve of the 45th anniversary of the atomic bombing of Hiroshima. It was the second human chain demonstration, the first was held in 1987.

The protestors involved in this mass appeal for peace included 400 residents of Miyako Island and other outlying areas of Okinawa, as well as 700 mainland Japanese.

By linking hands around the 17.4 kilometer circumference, successful human chains were completed three times. After the chain was completed, supporters released doves and sent up balloons as a symbol of peace. Red, yellow and green strips of cloth worn by the participants were alternately tied to the perimeter of the base fence after each chain was formed to remind the US of their presence.

According to reports the "human chain" protest has inspired similar groups in Japan. One group plans to encircle the US Air Force base at Yokota, on the outskirts of Tokyo, on October 21, 1990.

The Christian group was assigned a 100

meter section along the north perimeter of the base where they joined in forming the



chain. According to the Okinawa Heiw (Peace) Center people of all ages hurrie from their morning worship service throughout Okinawa to reach the base are in time.

Planning Committee Secretary Kinjo Koji of the Okinawa Peace Center, commenting before the event on Christian participation, said that "For Christian in Okinawa who have received the gift of life, it is an act of confession of faith With Okinawa's history of great loss of life in the war, and the reality of military bases today, as Christians who seek peace we must participate!"

And so they did. Although a maximum of 150 Christians were expected to participate, all estimates were exceeded as nearly 300 gathered to form the human chain; singing songs, offering prayer and chanting: "We love Okinawa! We hat the US bases!"

(Information gathered from the Ryukyu Shimpo, Mainice Shinbum and Okinawa Heiwa Center)

We of the human family are being sucked up into the vorte of a huge cyclone of our own making. The year 2000 wil see us sitting on the fence teetering between extinctic and proud possibility. We can see some of the forebodin landscape of the future, just by looking today at the way in which hate and animosity have gained ascendancy. The world is engaged in wars of all kinds and we continue tallow the rich to remain perniciously rich at the expens of the many, even in the richest and most powerful nation of the world. We need a new paradigm if we are to make i successfully into the twenty-first century yet alive (Editor)

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